The Formal Complexity of Natural Language

Edited by

Walter J. Savitch et al.

Formal Complexity Of Natural Language

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Formal Complexity Of Natural Language:

   The Formal Complexity of Natural Language W.J. Savitch,E. Bach,W.E. Marsh,Gila Safran-Naveh,2012-12-06 Ever since Chomsky laid the framework for a mathematically formal theory of syntax two classes of formal models have held wide appeal The finite state model offered simplicity At the opposite extreme numerous very powerful models most notable transformational grammar offered generality As soon as this mathematical framework was laid devastating arguments were given by Chomsky and others indicating that the finite state model was woefully inadequate for the syntax of natural language In response the completely general transformational grammar model was advanced as a suitable vehicle for capturing the description of natural language syntax While transformational grammar seems likely to be adequate to the task many researchers have advanced the argument that it is too adequate A now classic result of Peters and Ritchie shows that the model of transformational grammar given in Chomsky s Aspects IJ is powerful indeed So powerful as to allow it to describe any recursively enumerable set In other words it can describe the syntax of any language that is describable by any algorithmic process whatsoever This situation led many researchers to reasses the claim that natural languages are included in the class of transformational grammar languages The conclu sion that many reached is that the claim is void of content since in their view it says little more than that natural language syntax is doable algo rithmically and in the framework of modern linguistics psychology or neuroscience that is axiomatic   *The Oxford Handbook of Computational Linguistics* Ruslan Mitkov,2022-06-02 Ruslan Mitkov s highly successful Oxford Handbook of Computational Linguistics has been substantially revised and expanded in this second edition Alongside updated accounts of the topics covered in the first edition it includes 17 new chapters on subjects such as semantic role labelling text to speech synthesis translation technology opinion mining and sentiment analysis and the application of Natural Language Processing in educational and biomedical contexts among many others The volume is divided into four parts that examine respectively the linguistic fundamentals of computational linguistics the methods and resources used such as statistical modelling machine learning and corpus annotation key language processing tasks including text segmentation anaphora resolution and speech recognition and the major applications of Natural Language Processing from machine translation to author profiling The book will be an essential reference for researchers and students in computational linguistics and Natural Language Processing as well as those working in related industries   The MIT Encyclopedia of the Cognitive Sciences (MITECS) Robert A. Wilson,Frank C. Keil,2001-09-04 Since the 1970s the cognitive sciences have offered multidisciplinary ways of understanding the mind and cognition The MIT Encyclopedia of the Cognitive Sciences MITECS is a landmark comprehensive reference work that represents the methodological and theoretical diversity of this changing field At the core of the encyclopedia are 471 concise entries from Acquisition and Adaptationism to Wundt and X bar Theory Each article written by a leading researcher in the field provides an accessible introduction to an important concept in the cognitive sciences as well as references or further

readings Six extended essays which collectively serve as a roadmap to the articles provide overviews of each of six major areas of cognitive science Philosophy Psychology Neurosciences Computational Intelligence Linguistics and Language and Culture Cognition and Evolution For both students and researchers MITECS will be an indispensable guide to the current state of the cognitive sciences *The Handbook of Computational Linguistics and Natural Language Processing* Alexander Clark,Chris Fox,Shalom Lappin,2013-04-24 This comprehensive reference work provides an overview of the concepts methodologies and applications in computational linguistics and natural language processing NLP Features contributions by the top researchers in the field reflecting the work that is driving the discipline forward Includes an introduction to the major theoretical issues in these fields as well as the central engineering applications that the work has produced Presents the major developments in an accessible way explaining the close connection between scientific understanding of the computational properties of natural language and the creation of effective language technologies Serves as an invaluable state of the art reference source for computational linguists and software engineers developing NLP applications in industrial research and development labs of software companies **The Mathematics of Language** Makoto Kanazawa,Marcus Kracht,Hiroyuki Seki,András Kornai,2011-08-19 This book constitutes the proceedings of the 12th Biennial Meeting on Mathematics in Language MOL 12 held in Nara Japan in September 2011 Presented in this volume are 12 carefully selected papers as well as the paper of the invited speaker Andreas Maletti The papers cover such diverse topics as formal languages string and tree transducers grammar independent syntactic structures probabilistic and weighted context free grammars formalization of minimalist syntax parsing and unification lexical and compositional semantics statistical language models and theories of truth *Quantification in Natural Languages* Emmon Bach,E. Jelinek,A. Kratzer,Barbara B.H. Partee,2013-11-11 This volume of papers grew out of a research project on Cross Linguistic Quantification originated by Emmon Bach Angelika Kratzer and Barbara Partee in 1987 at the University of Massachusetts at Amherst and supported by National Science Foundation Grant BNS 871999 The publication also reflects directly or indirectly several other related activ ities Bach Kratzer and Partee organized a two evening symposium on cross linguistic quantification at the 1988 Annual Meeting of the Linguistic Society of America in New Orleans held without financial support in order to bring the project to the attention of the linguistic community and solicit ideas and feedback from colleagues who might share our concern for developing a broader typological basis for research in semantics and a better integration of descriptive and theoretical work in the area of quantification in particular The same trio organized a six week workshop and open lecture series and related one day confer ence on the same topic at the 1989 LSA Linguistic Institute at the University of Arizona in Tucson supported by a supplementary grant NSF grant BNS 8811250 and Partee offered a seminar on the same topic as part of the Institute course offerings Eloise Jelinek who served as a consultant on the principal grant and was a participant in the LSA symposium and the Arizona workshops joined the group of editors for this volume in 1989 **The Logical Approach to Syntax** Edward

P. Stabler,1992 By formalizing recent syntactic theories for natural languages Stabler shows how their complexity can be handled without guesswork or oversimplification By formalizing recent syntactic theories for natural languages in the tradition of Chomsky s Barriers Stabler shows how their complexity can be handled without guesswork or oversimplification He introduces logical representations of these theories together with special deductive techniques for exploring their consequences that will provide linguists with a valuable tool for deriving and testing theoretical predictions and for experimenting with alternative formulations of grammatical principles Stabler s novel approach allows results to be deduced with straightforward calculations and provides a systematic framework for tackling the problem of how speakers can infer the properties of an utterance from principles of the grammar The special treatment of equality induction principles and inclusion of a general method for collecting structures from proofs means that sophisticated linguistic arguments can be carried out in detail giving a rich perspective to issues in linguistic theory and parsing   Language, Life, Limits Arnold Beckmann,Ersébet Csuhaj-Varjú,Klaus Meer,2014-06-05 This book constitutes the refereed proceedings of the 10th Conference on Computability in Europe CiE 2014 held in Budapest Hungary in June 2014 The 42 revised papers presented were carefully reviewed and selected from 78 submissions and included together with 15 invited papers in this proceedings The conference had six special sessions computational linguistics bio inspired computation history and philosophy of computing computability theory online algorithms and complexity in automata theory   **Distributed Computing and Artificial Intelligence, Special Sessions, 15th International Conference** Sara Rodríguez,Javier Prieto,Pedro Faria,Sławomir Kłos,Alberto Fernández,Santiago Mazuelas,M. Dolores Jiménez-López,María N. Moreno,Elena M. Navarro,2019-01-08 This book presents the outcomes of the 15th International Conference on Distributed Computing and Artificial Intelligence held in Toledo Spain from 20th to 22nd June 2018 and hosted by the UCLM and which brought together researchers and developers from industry education and the academic world to report on the latest scientific research technical advances and methodologies Highlighting multi disciplinary and transversal aspects the book focuses on the conferences Special Sessions including Advances in Demand Response and Renewable Energy Sources in Smart Grids ADRESS AI Driven Methods for Multimodal Networks and Processes Modeling AIMPM Social Modelling of Ambient Intelligence in Large Facilities SMAILF Communications Electronics and Signal Processing CESP Complexity in Natural and Formal Languages CNFL and Web and Social Media Mining WASMM   Aspect in English K. Kabakciev,2013-03-09 Based on an earlier edition published in 1992 in Bulgarian this book offers a specific approach to one of the most controversial problems in linguistics According to it aspect is the result of a subtle and complex interplay between the referents of verbs and nouns in the sentence Special attention is paid to the role nouns and noun phrases play in the explication of aspect in English and similar languages The grammatical marking of aspect is shown to be a compensatory phenomenon imposed by language structure Comparisons made using Slavic mainly Bulgarian data reveal that compositional aspect is a mirror image

of verbal aspect When explicated compositionally aspect is also determined by pragmatic factors Ultimately it is part of man s cognitive potential <u>Ellipsis and Nonsentential Speech</u> Reinaldo Elugardo,Robert J. Stainton,2005-08-26 The papers in this volume address two main topics Q1 What is the nature and especially the scope of ellipsis in natural l guage Q2 What are the linguistic philosophical implications of what one takes the nature scope of ellipsis to be As will emerge below each of these main topics includes a large sub part that deals speci cally with nonsentential speech Within the rst main topic Q1 there arises the sub issueofwhethernonsententialspeechfallswithinthescopeofellipsisornot within the second main topic Q2 there arises the sub issue of what linguistic philosophical implications follow if nonsentential speech does does not count as ellipsis I THE NATURE AND SCOPE OF ELLIPSIS A General Issue How Many Natural Kinds There are many things to which the label ellipsis can be readily applied But it s quite unclear whether all of them belong in a single natural kind To explain consider a view assumed in Stainton 2000 Stainton 2004a and elsewhere It is the view that there are fundamentally at least three very different things that readily get called ellipsis each belonging to a distinct kind First there is the very broad phenomenon of a speaker omitting information which the hearer is expected to make use of in interpreting an utterance Included therein possibly as a special case is the use of an abbreviated form of speech when one could have used a more explicit expression See Neale 2000 and Sellars 1954 for more on this idea <u>Foundations on Natural and Artificial Computation</u> José M. Ferrández,José Ramón Álvarez,Félix de la Paz,Fco. Javier Toledo,2011-05-20 The two volumes LNCS 6686 resp LNCS 6687 constitute the refereed proceedings of the 4th International Work Conference on the Interplay between Natural and Artificial Computation IWINAC 2011 held in La Palma Canary Islands Spain in May June 2011 The 108 revised full papers presented in LNCS 6686 resp LNCS 6687 were carefully reviewed and selected from numerous submissions The first part LNCS 6686 entitled Foundations on Natural and Artificial Computation includes all the contributions mainly related to the methodological conceptual formal and experimental developments in the fields of neurophysiology and cognitive science The second part LNCS 6687 entitled New Challenges on Bioinspired Applications contains the papers related to bioinspired programming strategies and all the contributions related to the computational solutions to engineering problems in different application domains specially Health applications including the CYTED Artificial and Natural Computation for Health CANS research network papers **Events and Grammar** Susan Rothstein,2013-12-01 In recent years the study of events and their role as implicit arguments of predicates has been at the center of much important work in semantics and the syntax semantics interface This volume brings together fourteen original studies by leading scholars in semantics and the syntax semantics interface covering a broad spectrum of research into the role of events in grammar The papers extensively address the following topics among others event arguments and thematic argument structure the role of events in verbal aspectual distinctions events and the distinction between stage and individual level predicates the role of events in the analysis of plurality and scope relations the mass count distinction and propositional

attitudes   **Plurality and Quantification** F. Hamm,Erhard W. Hinrichs,2013-03-14 The papers in this volume address central issues in the study of Plurality and Quantification from three different perspectives Algebraic approaches to Plurals and Quantification Distributivity and Collectivity Theoretical Foundations Distributivity and Collectivity Empirical Investigations Algebraic approaches to the semantics of natural languages were in dependently introduced for the study of generalized quantification pred ication intensionality mass terms and plurality The most prominent modern advocate for an algebraic theory of plurality and mass terms is certainly Godehard Link It is indicative of the Wirkungsgeschichte of Link s work that most of the contributions in this volume take the logic of plurals proposed by Godehard Link Link 1983 1987 as their foundation or at the very least as their point of reference Link s own paper in this volume provides a concise summary of many of the central research issues that have engaged semanticists during the last decade Link s paper also contains an extensive bibliography that provides an excellent resource for scholars interested in the semantics of plurals Since we can refer readers to Link s paper for an excellent survey of the subject matter of this book we will limit our attention in this in troduction to summarizing the individual contributions in this volume The book is organized into three main sections within each section the papers are ordered alphabetically However as in much of linguistic the orizing there is an exception for reasons pointed out above Godehard Link s article appears as Chapter 1   **Word Meaning and Montague Grammar** D. R. Dowty,2012-12-06 The most general goal of this book is to propose and illustrate a program of research in word semantics that combines some of the methodology and results in linguistic semantics primarily that of the generative semantics school with the rigorously formalized syntactic and semantic framework for the analysis of natural languages developed by Richard Montague and his associates a framework in which truth and denotation with respect to a model are taken as the fundamental semantic notions I hope to show both from the linguist s and the philosopher s point of view not only why this synthesis can be undertaken but also why it will be useful to pursue it On the one hand the linguists decompositions of word meanings into more primitive parts are by themselves inherently incomplete in that they deal only in distinctions in meaning without providing an account of what mean ings really are Not only can these analyses be made complete by a model theoretic semantics but also such an account of these analyses renders them more exact and more readily testable than they could ever be otherwise   The Semantics of Media J. Ross,2012-12-06 Media are objects with content and character that we describe using in phrases in the story in the picture in the movie in the dream Like the propositional attitudes these objects present a variety of hard problems for semantic and philosophical analysis The Semantics of Media is an organized exploration of fundamental questions in the semantics of media The first three chapters set out a straightforward model within the possible worlds framework and consider how it might account for a range of notions applying to media generally implicit vs explicit content propositional vs individual content causal vs intentional content and the idea of a single World of the Medium The final three chapters examine ways of elaborating the model to cover a range of phenomena keyed to the

functionality of particular forms of media Chapter Four is a discussion of fiction and our apparent reference to fictional characters Chapter Five deals with the phenomenon of viewpoint in pictorial media Chapter Six is a study of interactions between users and characters of media centering on the puzzling case of seeing in films The Semantics of Media will be of interest to specialists in the fields of linguistics philosophy and communications **Fact Proposition Event** P.L. Peterson,2013-03-09 Peterson is an authority of a philosophical and linguistic industry that began in the 1960s with Vendler s work on nominalization Natural languages distinguish syntactically and semantically between various sorts of what might be called gerundive entities events processes states of affairs propositions facts all referred to by sentence nominals of various kinds Philosophers have worried for millennia over the ontology of such things or things but until twenty years ago they ignored all the useful linguistic evidence Vendler not only began to straighten out the distinctions but pursued more specific and more interesting questions such as that of what entities the causality relation relates events facts And that of the objects of knowledge and belief But Vendler s work was only a start and Peterson has continued the task from then until now both philosophically and linguistically Fact Proposition Event constitutes the state of the art regarding gerundive entities defended in meticulous detail Peterson s ontology features just facts proposition and events carefully distinguished from each other Among his more specific achievements are a nice treatment of the linguist s distinction between factive and nonfactive constructions a detailed theory of the subjects and objects of causation which impinges nicely on action theory an interesting argument that fact proposition events are innate ideas in humans a theory of complex events with implications for law and philosophy of law and an overall picture of syntax and semantics of causal sentences and action sentences Though Peterson does not pursue them here there are clear and significant implications for the philosophy of science in particular for our understanding of scientific causation causal explanation and law likeness Professor William Lycan University of North Carolina Chapel Hill **The Parameter of Aspect** C.S. Smith,2012-12-06 While working on this project I have received institutional support of several kinds for which I am most grateful I thank the Institute for Advanced Study at Stanford University and the Spencer Foundation for a stimulating environment in which the basic idea of this book was developed The Max Planck Institute for Psycho linguistics at Nijmegen enabled me to spend several months working on the the manuscript A National Science Foundation grant to develop Discourse Representation Theory and a grant from The University Research Institute of the University of Texas also gave me time to pursue this project I thank Helen Aristar Dry for reading early drafts of the manuscript Osten Dahl for penetrating remarks on a preliminary version and my collaborator Gilbert Rappaport for relentless comments and questions throughout People with whom I have worked on particular languages are mentioned in the relevant chapters lowe a special debt of gratitude to the members of my graduate seminar on aspect in the spring of 1990 they raised many questions of importance which made a real differ ence to the final form of the theory I have benefitted from presenting parts of this material publicly including colloquia at the University of California at Berkeley the University of

California at San Diego the University of Pennsylvania Rice University the University of Texas and University of Tel Aviv I thank Adrienne Diehr and Marjorie Troutner for their efficient and good humored help throughout the work on the first edition   **Ways of Scope Taking** A. Szabolcsi,2012-12-06 The present volume is as much a book co authored by all the contributors as it is an edited collection of their papers Most of the contributors have been involved in regular discussions over the past years often inspiring the questions or some aspects of the proposals in each other s papers or actually collaborating on co authored papers For this reason the contributions make related assumptions and explore highly related issues The organization of the volume reflects this unity of aims and interests It starts out with an overview of some of the shared formal background and the chapters are arranged in a sequence that is intended to invite the reader to proceed from one directly to the next Nevertheless there has been no attempt to eliminate individual differences in either assumptions or choice of topic All the chapters are entirely self contained so the reader will find it equally possible to read any of them in isolation Two members of the UCLA community do not appear in this volume but have been an important source of inspiration for this project Ed Keenan and Feng hsi Liu Many of Keenan s works have drawn attention to the empirically diverse behavior of natural language determiners and developed theoretical tools for studying them Liu s 1990 dissertation examined the abilities of a representative sample of noun phrases to participate in scopal dependencies and branching coming up with provocative generalizations and pointing out their significance for then standard theories in powerful terms

   A Dictionary of Grammatical Terms in Linguistics R.L. Trask,2013-04-15 This dictionary of grammatical terms covers both current and traditional terminology in syntax and morphology It includes descriptive terms the major theoretical concepts of the most influential grammatical frameworks and the chief terms from mathematical and computational linguistics It contains over 1500 entries providing definitions and examples pronunciations the earliest sources of terms and suggestions for further reading and recommendations about competing and conflicting usages The book focuses on non theory boumd descriptive terms which are likely to remain current for some years Aimed at students and teachers of linguistics it allows a reader puzzled by a grammatical term to look it up and locate further reading with ease

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